

Dental plan for all staff would begin this summer

by Jake Koekebakker

University academic and non-academic staff could have a dental plan by July 1 if 75 percent indicate they want it.

According to Dr. George Connell, Vice-President-Planning and Research, the University administration is seriously considering including a dental plan in its forthcoming salary and benefits recommendations.

While the proposal will first be

reviewed by the Budget and Planning and Resources Committees before approval by the Governing Council, Dr. Connell indicated the final decision will depend on the outcome of a poll of all University staff in the form of a return of enrolment cards.

Seventy-five percent participation is required for the plan to go into effect.

Cost is estimated at about 1 percent of salary, or a total of more than \$1 million.

Meanwhile, Connell indicated the salary and benefits adjustment review procedure has been affected this year by the Faculty Association's unwillingness to discuss the matter. He said the administration will revert to a procedure followed in earlier years and submit its recommendations to the Budget Committee on April 26. The Planning and Resources Committee will hear the proposals May 9.

He also said discussions with the

University of Toronto Staff Association are "moving forward."

Prof. Jean Smith, chairman of UTFA's salary and benefits committee, acknowledged the association has declined to negotiate about a dental plan, but he indicated "technical details" are being discussed. He cited item 8 of UTFA's salary requests, making acceptance of a dental plan contingent on 75 percent of the academic staff signing up for it.

Prudence Tracy, chairman of the

budget committee of the University of Toronto Staff Association, said the association has had "one very amicable" meeting with the administration, and hopes to submit its own salary and benefits requests next week.

UTSA recently sent questionnaires about the desirability of a dental plan to all administrative staff. To date, Tracy said, over half have been returned, and of these 95 percent have been in favour of a plan.

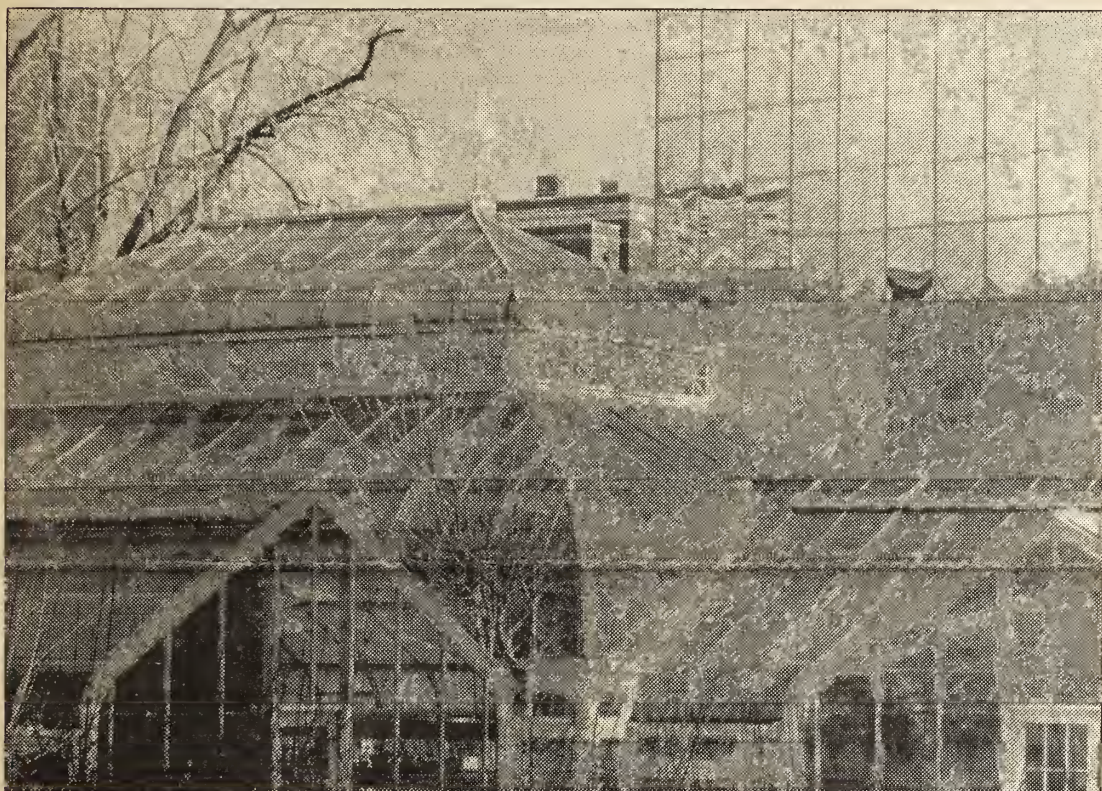
Bulletin

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CONTRARY TO THE POPULAR MAXIM, the people who live in some glass houses should and do throw excellent parties, as witness the delightful flower show at the Department of Botany greenhouse in March.

Simcoe Hall and UTFA resumed talks April 12

Negotiations between the University administration and the Faculty Association concerning the terms and conditions of employment of faculty members and librarians resumed on Tuesday, April 12, after having broken down early in March.

"There are still some difficult issues to be dealt with," commented Vice-President and Provost D. A. Chant, "but we share with the Faculty Association the hope that they can be successfully resolved."

The conversations that led to the resumption of negotiations took place well before the results of the latest UTFA referendum (see story below) were known, Chant said.

Professor J.E. Smith, chairman of the UTFA Salary and Benefits Committee, said that the decision to reopen discussions "followed a week or so of informal meetings between representatives of both parties, in which ways out of the

present impasse were explored extensively. As a result of those informal soundings, we felt it would be useful to try once again to reach an agreement.

"It is, of course, premature to speculate on the outcome," said Smith. "We have emphasized to the Governing Council's representatives that there is an urgent need to resolve matters of substance. The results of the recent referendum make it abundantly clear that this position is shared by the overwhelming majority of academic staff."

"Our major concern at this point," Smith continued, "is that the Governing Council and its negotiators recognize this fact and act expeditiously. We are prepared to meet with them as frequently as necessary in the coming weeks to reach an agreement, and we would hope that they would reciprocate."

UTFA negotiating team receives strong support

The Faculty Association's negotiating team this week received the vote of confidence it had sought through a mail-in referendum by collecting 1232 votes (87%) in favour, with only 185 against.

The results, tabulated by University College Principal A.C.H. Hallett, Professor Peter Russell and Professor Emeritus W.T. Easterbrook, were:

Arts and Science: 605 (90%) Yes, 59 No;

Federated Colleges: 95 (79%) Yes, 25 No;

Professional Faculties: 402 (83%) Yes, 85 No;

Librarians: 130 (89%) Yes, 16 No.

The turnout, including spoiled and unidentified ballots, represented 64 percent of the eligible voters — four percent more than voted in a similar referendum in November 1976. Members and

non-members of UTFA were polled in both instances.

In every category, the UTFA team did better than in November, especially in the professional faculties, where the November vote resulted in 254 (63%) supporting UTFA, with 148 indicating their disapproval. The comparable Arts and Science results in the November ballot were 493 (73%) Yes, 179 No.

UTFA negotiating team chairman Jean Smith said he was "gratified and encouraged by the heavy vote", and UTFA president Jim Daniels stated, "This provides very persuasive evidence that faculty members and librarians genuinely seek an agreement on substantive issues."

"I hope that Governing Council will take this to heart, and give their negotiators a green light to proceed," Daniels said.

\$130,000 will fund Ukrainian textbooks

A contribution to the Update fund of approximately \$130,000 by the Canadian Institute of Ukrainian Studies Foundation will be employed by U of T's Department of Slavic Languages and Literatures to research and produce a series of basic textbooks on the

language, literature, history, arts and political science of the Ukraine, says Professor George Luckyj, the project's director.

The texts will be aimed primarily at the university undergraduate level, though they could also be

used in Ontario Grade 13 level courses.

Interest in Ukrainian studies has increased noticeably in Canada



University of Toronto

over the past 10 years, reports Luckyj, a professor of Ukrainian and Russian literature, and at U of T alone, about 80 undergraduates are enrolled in Ukrainian courses, as compared with only about a dozen a decade ago.

The project will also include the preparation of the third volume of a six-volume Ukrainian Encyclopedia in English, the first two volumes of which were published by U of T Press in 1963 and 1971 respectively.

The Canadian Institute of Ukrainian Studies is based in Edmonton, with branches throughout the Western Provinces and in Ontario. The Foundation is a private funding agency providing financial support for the Institute's activities.

Presidential search committee

A search committee for a new President of the University, who is to take office on July 1, 1978, will be formed shortly, and nominations for the committee are being sought.

These recommendations concerning the composition of the committee will be considered by the Governing Council at its next meeting on April 21:

five teaching staff of whom not more than **two** will be academic administrators;

three students (one full-time undergraduate, one part-time undergraduate, one graduate);

two alumni;

two administrative staff;

two government appointees;

chairman — Mrs. Marnie Paikin.

The members of the committee, with the exception of the government appointees, need not be members of the Governing Council.

Relevant background information should accompany each nomination, which should be received by David Claringbold, Secretary of the Search Committee, Room 106, Simcoe Hall, **not later than May 2.**

The striking committee is to report to the Executive Committee on May 10.

U of T may lease library

The University has submitted an offer to Metropolitan Toronto to lease the Central Reference Library at College and St. George Streets.

The offer, which was formally submitted two weeks ago, has the support of Toronto mayor David Crombie and the City Council, and is expected to go before the Metro Council on May 3.

The proposal is seen as a temporary solution to the University's space requirements for the Faculty of Applied Science and Engineering, following the fire in the Sandford Fleming Laboratories in February.

FORUM

The age of mature wisdom

To the Editor:

It appears from the March 18 issue that the *Bulletin's* policy is to publish information about Vice-Presidents and Deans which will enable its readers to judge whether the appointees have reached the age of mature wisdom. To judge from the numbers

of people who have enquired, it is my guess that your readers believe that principals should be included in this policy. I am quite willing to have you publish the fact that I am 40.

J.E. Foley,
Principal,
Scarborough College.

McLennan labs were re-named

To the Editor:

I am astounded that you would publish the attached photograph ("Sod-breaking ceremonies for the McLennan Physical Laboratories, in the early 1900s." *Bulletin*, March 25, Page 7), without observing that the building was later renamed the Sandford Fleming

Building, and was recently destroyed by fire. A large portion of the University would not associate the name, McLennan Physical Laboratories, with this fact.

P. Boulton,
Associate Dean,
Faculty of Applied Science
and Engineering.

More on "sinister, callous G.C."

To the Editor:

To avoid overtaxing your readers' patience I will try to be brief in responding to Professor Dunphy's letter entitled "What is sinister, callous or smacking of bad faith in Governing Council's Record?" - his words not ours. Professor Dunphy excuses the late appearance of the G.C. Advisory Committee's counter proposals by saying that they did not have the time enjoyed by UTFA's Salary and Benefits Committee which had begun meeting last summer and goes on to object to "the strictly choreographed rituals of two contending adversaries across a definitely non-collegial board" which he thinks would result from an UTFA type contract.

What actually happened? UTFA told the President and Provost what we were doing last summer and actually arranged a small meeting between a few members of our Salary and Benefits Committee and the President with a few of his colleagues in the administration. This was followed on September 17 by a larger meeting at the President's house of the full Salary and Benefits Committee with a group of senior administrators chosen by the President. A draft of our proposed memorandum of agreement was shown to the President as a basis for discussion before this meeting and before it was revealed to the UTFA membership. This is what we call collegiality and it bears no resemblance to Professor Dunphy's scenario. It gave the President an opportunity to make his quite different proposals early in October. Whether the final counter proposals of March 7 bear any resemblance to the President's proposals of early October is a matter of opinion on which we differ with Professor Dunphy. Their form is of course different

and in details they go further, but I think most colleagues who take the trouble to compare them will see why we put them in the same category.

As for Professors Dunphy's and Rapson's complaints about the wording of the referendum, that was nicely answered by Professor Bryden, than whom few in the University have more political experience, when he told the UTFA annual meeting that anybody familiar with the British and Canadian political tradition knows the meaning of a vote of confidence - one is asked to vote not for individuals but for what they stand and this was made clear in the statement accompanying the ballot. Perhaps it should have been printed on the same page as the ballot, but that was a matter of mechanics. We trust that the majority of our colleagues will see the point and that Professors Dunphy and Rapson will be in as small a minority in the referendum vote as they have been in the columns of your paper.

Prof. J.B. Conacher,
UTFA Salary & Benefits
Committee.

UQaM professor was heard by few

To the Editor:

Marc Lagana, a professor at the Université du Québec à Montréal, spoke at U of T March 30 about UQaM and its labour troubles. The visit was sponsored by the Graduate Assistants Association (and by York University Faculty Association and Staff Association).

Professor Lagana's lively and detailed account and analysis deserved to be heard by more U of

Continued on Page 6



AT THE DANCE AND AESTHETICS NIGHT held by the Women's Athletic Association a few weeks ago, the Contemporary Dance Performance Group demonstrated this number which, while unidentified, looks as though it was a lot of fun.

Research funding increases for 1977-78

University researchers can look forward to some easing of the constraints on research funding in 1977-78. The Ministry of State for Science and Technology has announced an increase of \$20 million, or 12%, in the funds that Parliament will be asked to provide in the 1977-78 fiscal year. These funds are to be used by the National Research Council, the Medical Research Council, and the Social Sciences and Humanities Research Program of the Canada Council for the support of research in universities and non-profit institutions. The funding proposals, which total \$181 million, were contained in the 1977-78 estimates, tabled recently in the House of Commons.

According to Professor Adrian Brook, chairman of U of T's Research Board, the announcement can be welcomed as a heartening response by the government to the financial plight of researchers.

"One can only hope," he said, "that this policy will be continued and expanded, and that the government will provide adequate increases in budget to cover real inflation rates. In science-oriented areas of research, at least, it is well established that the actual rate of inflation significantly exceeds the usually quoted domestic rate."

Prof. Brook said that additional funding is also desperately needed to start promising young faculty on productive careers, and to make possible the purchase of new research equipment necessary to keep Canada's research community competitive with those in other countries.

The funding estimates put before Parliament provide for inflationary increases in the costs of research supported by the granting councils and, in addition, \$8 million for programs relating "especially to a regional balance of scientific capability, national problem areas, and the support of interdisciplinary research."

The Medical Research Council grants and scholarships program estimates will be increased by 12% to \$56.7 million in 1977-78. Government funding for the support of social sciences and humanities research through the Canada Council will increase by 12% to \$26.2 million, and the National Research Council's grants and scholarships program will increase by 13% to \$97.7 million.

According to Dr. Tom Clark, director of the Office of Research Administration, most of the funding increase would go towards

covering inflation, which, based on the price index, he put at "in excess of 10%." He pointed out that the real increase, therefore, would be only slightly more than

2% in the case of NRC, and less than that in the case of the other granting agencies.

J.K.

CNIB requires readers

The Canadian National Institute for the Blind needs readers and monitors for the *Textbooks with a Voice* program. Volunteers for the program attend for a minimum of two hours each week in the recording studios at the CNIB, 1929 Bayview Ave.

Readers and monitors are needed from all disciplines, but the CNIB is looking particularly for those who can read law, sociology, mathematics, science, and computer-oriented material. A special

problem now is presented by the letters and journals of Beethoven. The first two parts of the series have been recorded. However, the reader has moved out of the city and the Volunteer Bureau is looking for another who is familiar with music and German pronunciation to complete the series.

Volunteers are essential for the continuation of this CNIB service. If you can help, please telephone the Volunteer Bureau at 486-2573.

Assistant professor required

An assistant professor is required by the Department of Electrical Engineering by July. The position will involve undergraduate and graduate teaching, as well as supervision of graduate work and research in the general area of electronics with particular emphasis on one or more of: modern signal processing, instrumentation techniques, and computer aided design of integrated circuits.

Applicants should hold a doctorate in an appropriate area and be familiar with modern technology. Industrial experience will be considered an asset. The salary

level is commensurate with qualifications.

Application, with curriculum vitae, should be made to Professor K.C. Smith, Chairman, Department of Electrical Engineering.

In memoriam

Professor William Dunbar, formerly of the Department of Civil Engineering, died February 23. Professor Dunbar, whose specialty was in structural design and drawing, began his teaching career in 1920 as instructor in the Department of Engineering Drawing. He retired in 1961.

Carrel applications available

Applications for carrels and book lockers for faculty members and graduate students for the summer session will be received until April 29. Application forms and information sheets are available at the Circulation Desk, 4th Floor, Robarts Library.

As in the past, assignments for graduate students will be made on the basis of priorities decided in consultation with the appropriate graduate department. It is expected that assignment of carrels and book lockers will begin on May 9.

For further information, please inquire at the Circulation Desk or telephone the Carrel Office at 2305.

Hire a student, please!

Students should have first crack at summer jobs around the University, according to personnel at Employment Services and the Student Placement Centre.

Departments looking for staff for "casual positions" - part-time of full-time jobs lasting from a few days to a few weeks - should contact the Placement Centre at 2538; and those with "permanent positions" available - lasting from several weeks to several months, and paid for out of budgeted money or grants - should contact Employment Services at 2111.



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BRIEFLY

Try to Remember is the title of a collection of memory pictures by Jean-Philippe Vogel on view at the Hart House Art Gallery from April 26 to May 13.

Gallery hours are Monday, 11 a.m. — 9 p.m., Tuesday to Saturday, 11 a.m. — 5 p.m. and Sunday 2 — 5 p.m.

Musicians from the U of T and the University of Western Ontario have exchanged concert platforms this year. Yuri and Dana Mazurkevich, duo violinists and Hugh McLean, organist, came to Walter Hall in October and the London faculty singers and wind ensemble visited in February. In December, the U of T symphony played to a London house and in February Stephen Chenette took his *Celebration of Trumpets* to UWU.

In the past, Toronto has had exchange programs with McGill and the University of Montreal, but this is the first exchange with Ontario colleagues. It has been so successful that it is hoped an encore can be arranged.

Prof. John Kenneth Galbraith will be the keynote speaker for the University College Alumni Association symposium, "Galbraith Looks at the Canadian Economy", and a panel under the chairmanship of Walter Gordon will comment, all on Friday, April 29 at 8 p.m. in Convocation Hall. Tickets are \$5 and are available from Alumni House, 47 Willcocks St., telephone 978-2367.



Guggenheim Fellowship awards have been made to three U of T professors and, in addition, Queen's University is recognizing the achievements of one of the fellowship recipients with an honorary degree.

Under Guggenheim auspices, Professor Phyllis Grosskurth, Department of English, will undertake a biography of Havelock Ellis; Professor Michael Millgate, Department of English, will prepare a biography of Thomas Hardy; and Professor Ann Saddlemyer, Department of English and director of the Graduate Centre for the Study of Drama, will develop a theory of modern comedy. The U of T award winners were chosen from among 313 scholars, scientists and artists. Only three other awards were made to Canadians.

In addition, Prof. Saddlemyer is being honoured by Queen's University which will present her with an honorary Doctor of Laws degree at its spring convocation, June 4.

The Alfred P. Sloan Foundation has announced that three U of T scientists are among the 95 "outstanding young scientists" selected to receive Sloan Fellowships for Basic Research beginning in the 1977-78 academic year.

The three are Professors Paul W. Brumer and Geraldine A. Kenney-Wallace of the Division of Physical Science, Scarborough College, and Professor William R. Peltier of the Department of Physics.

The fellowships run for two years in varying amounts averaging about \$8,200 a year.

Erindale College in February again this year acted as host for the Ontario High School German Contest. Students from two schools in Halton County competed in three categories. In keeping with previous and pleasant tradition, the students after the competition took the opportunity to visit with Erindale students and faculty.

At the reception, Vice-Principal Desmond Morton presented the winners with prizes donated by the German Consulate General in Toronto.

The Guidance Centre has been distributing the publications of the Teachers College Press of Columbia University since 1971. This has now become a reciprocal arrangement and the Teachers College Press is distributing Guidance Centre publications in the United States.

For a catalogue of publications available through the Guidance Centre, telephone 978-3210.

Beginning in 1977, the annual teaching conference, traditionally presented by the Canadian Dental Association, will be held under the joint sponsorship of that organization and the Association of Canadian Faculties of Dentistry.

The subject of the 1977 conference will be "Physical Diagnosis in Dental Education". Sessions will be held in conjunction with the Association of Canadian Faculties of Dentistry to be held at Laval in June.

Departments interested in offering old lab equipment, such as calculators and microscopes, for use in schools and production units overseas please contact: Project Control Unit, CUSO, 151 Slater St., Ottawa, Ont. K1P 5H5. Telephone: (613) 237-0390.

Professor Luba Eleen, Fine Art at Erindale College, has been granted an award by the Millard Meiss Publication Fund of the College Art Association to aid in the publication of her book, *The Illustrations of the Pauline Epistles*, by the Oxford University Press.



Professor Joan Grusec

How to teach altruism to children

Is altruism best taught to children by example or by exhortation? By "do as I do" or "do as I say"?

Professor Joan Grusec of the Department of Psychology, who has been investigating the matter, says that example is by far the best teacher — that children who learn socially helpful behaviour strictly through imitation of others not only feel less coerced than those who are directly instructed, but are also more likely to continue with altruistic behaviour when their parents aren't around.

"Lecturing seems only to anger a child," says Prof. Grusec. "Although we don't know why a child will emulate a model, we do know that seeing a pattern and hearing the parent articulate what is good about it is very helpful."

In a recent study, Grusec watched what happened when a group of children were put in a situation where they had the

option of sharing — or not sharing — their possessions with others. She found that those children who had been spoken to or preached at about the virtues of generosity failed to respond in a helpful way, whereas those who had observed a pattern of helpfulness in their elders consistently emulated it.

In the same study, the children had the option of helping — or not helping — someone gather articles that had been dropped. Those who had seen a pattern of helping volunteered their help, but those who had only been lectured to failed to respond, and, in fact, were even less helpful than the control group, who had been exposed to neither example nor exhortation.

Punishment, a book written by Professors Grusec and Gary Walters, and containing the results of Prof. Grusec's recent studies, will be published this August by W.H. Freeman.

Mayor David Crombie presented a City of Toronto Medal to librarian Andrew Gregorovich at the Civic Honours Day held at City Hall on March 4. The award was made in recognition of Gregorovich's contribution to the city as a member of the Toronto Historical Board. City Council first appointed him in 1972 and in 1975-76 he served as vice-chairman of the Board. Mr. Gregorovich is head of the Technical Services Department of Scarborough and Erindale College Libraries, which are located in the Roberts Library.

The University's Television Production Service advises us that individuals or groups wishing professional recording of Sesqui events by experienced technicians should telephone Mike Du Boulay at 978-6540 for quotes or technical information.

Erindale College announces the establishment of the R.E.A. Morton Prize, valued at \$75, which will be awarded annually to the first-year student achieving the highest average in five full courses, of which three must be in the Division of Humanities. Application is not required.

The Ford Motor Company of Canada, through a donation to the University's Update fundraising campaign, has made it possible for the Media Centre to undertake a television series on Canadian history of the kind whose dearth is

lamented in the Symons Report on Canadian Studies.

A series of 15 videotapes on Canadian life in the nineteenth century will be created from scripts by U of T professors Alan Thomas and Desmond Morton, based on such actual accounts of the period as diaries, letters, journals and other autobiographical material.

The first program, entitled "Pioneer Girl", is based on the diary of 14-year-old Mary Anne Caswell, who journeyed with her family from Palmerston, Ontario to Saskatchewan in 1887.



In the midst of its own 150th birthday celebrations, the University has sent best wishes to Dr. William E.J. Ekins, who celebrated his 100th birthday last month.

Dr. Ekins, a resident of Victoria, B.C., was born in Thorold, Ontario on March 30, 1877, and was awarded the degree M.D., C.M. by the University in 1903.

The University of Miami, looking for money to defray the cost of

its new baseball stadium, held a "gourmet dinner-on-the-infield". Dress was black tie and digestion of the food, prepared by two master chefs flown from Los Angeles for the occasion, was aided by the strains of four violins and a harp. The cost was \$5,000 per person.

And we thought hot-dogs were standard fare at a baseball park.

The University telephone book from time to time yields more than phone numbers. We have discovered, for example, that in the periodicals reading room of the library one may delve into "Human Ties and Social Sciences".

Who said libraries were full of nothing but musty old books?

During the month of May, Dr. Reginald Stackhouse, principal of Wycliffe College, will preach in St. Paul's Cathedral, London, and Gloucester Cathedral in connection with the college's centennial anniversary.

On Thursday evening, May 5, at eight o'clock Victoria University is holding its spring Convocation and Emmanuel College Graduation in Convocation Hall. Diplomas and degrees will be conferred on students graduating from Emmanuel College.

Honorary Doctor of Divinity degrees will be conferred upon the Rev. Dr. K.H. Cousland, Principal Emeritus of Emmanuel College; Dr. Katharine B. Hockin, former dean and interim director of the Ecumenical Forum of Canada and sessional lecturer in missions, Toronto School of Theology; the Rev. H.R. Stevenson, long-time parish minister in the United Church of Canada; and the Rev. T.L. Tucker, distinguished missionary of the United Church of Canada at present serving in Zambia. An honorary degree of Doctor of Sacred Letters will be conferred upon Dr. George Ignatieff, Provost and Vice-Chancellor of Trinity College. The Rev. Theodore L. Tucker will deliver the Convocation address.

The public are most cordially invited to attend this event.

The second printing of the Pollution Probe report, *Recycling: Identifying the Barriers*, is now available. Although the report gives an over-view, its focus is on the barriers to paper reclamation and recycling.

The complete report, four volumes and summary, can be obtained from Probe at 43 Queen's Park Crescent East, Toronto M5S 2C3, for \$20. The summary alone is available for \$1.

The Canada Council has reported total expenditures in 1975-76 of \$25.3 million in grants and services for the social sciences and humanities, and \$30.4 million for the arts.

In the humanities and social sciences, \$21.14 million was spent on established programs such as doctoral fellowships, research grants, leave fellowships for university scholars and aid to scholarly publication.

The Council spent \$609,000 on its new program grants that are given to teams of scholars working on independent projects with clearly defined goals. During 1975-76 there were five such groups. These included teams from the U of T and the University of Quebec at Montreal studying prehistoric plant, animal and human remains and evidences of early settlement in the North.

Weekly/monthly reference lists

Want to receive weekly or monthly lists of references in a specific subject area? The University's Science and Medicine Library serves as a liaison with five CAN/SDI centres in Ottawa, and will help you with the initial construction of a detailed subject "profile", consisting of up to 50 terms expressing your area of interest, and matched against one of 11 data bases.

At present, data bases searchable on CAN/SDI include: Chemical Abstracts, Chemical Titles, Science Citation Index, Biological Abstracts, INSPEC (physics, computers, electronics), Engineering Index, Bibliography and Index of Geology, U.S. Government Reports (NTIS), Bibliography of Agriculture, Psychological Abstracts, and Metals Abstracts. Soon to be added are Food Science and Technology Abstracts.

For information phone Mary Ferguson, 978-8619.

Measuring the unmeasurable is Mrs. T's job

by Jake Koekebakker

When the U.S. National Bureau of Standards needed a better way to analyse mercury in the environment, it sent a scientist to U of T to consult Bella Tiefenbach, a research associate with the Department of Chemical Engineering and Applied Chemistry.

Tiefenbach, known affectionately to her colleagues as "Mrs. T", is one of only a handful of people in North America, and probably the world, who know how to weigh amounts not weighable by ordinary methods.

She uses a technique called *neutron activation*, pioneered at U of T 20 years ago, but only now gaining recognition in environmental and biomedical research as a powerful tool for identifying and measuring quantities so minute they are known as "trace elements".

Neutron activation works by bombarding a sample of material to be tested — hair, fish, ice — with neutrons from a nuclear reactor, such as the University's Slowpoke, that converts certain of the elements in the sample to radioactive forms known as isotopes. Then the characteristic radiation emitted by the isotope is analysed and measured, yielding not only identification, but also a quantitative measurement.

Even though automated equipment has made neutron activation analysis easier and faster, Mrs. Tiefenbach says the painstaking, exacting methods it requires are still a real challenge. "You have to develop a feeling for dealing with amounts not weighable," she declares, "— a sense of the small."

The lab started to develop neutron activation for environmental applications more than 10 years ago, when its supervisor, Professor Robert Jervis, became

Mrs. Bella Tiefenbach, research associate in the Department of Chemical Engineering and Applied Chemistry.



interested in mercury pollution. By 1967, when one of the first major international science conferences concerned with environmental mercury contamination convened, the lab was already analysing food samples.

"We were analysing fish for mercury before anyone was even talking about it," Tiefenbach says. "Then we expanded our experiments to cadmium, and we gradually found that the method was well fitted for determining many other trace elements." To obtain samples in the early days, Mrs. T recalls, she even raided the fridge at home. "I would get all kinds of food from my kitchen," she says, "and we got fish from the market." Soon she was analysing food for arsenic, selenium, cadmium and zinc and, more recently, for chromium and tellurium.

Several spectacular cases of food poisoning have come the lab's way. Neutron activation analysis on the hair of an Ontario woman who was suffering from mental disturbance, and who was the wife of a feed mill operator, brought to light the fact that over a period of time she had ingested a seed-dressing agent containing phenyl mercury.

A similar record was found in the hair of a New Mexico family that had unknowingly eaten meat contaminated by mercury. In that case, an alert public health official recognized the similarity of the symptoms of the family's three sick children to those of Minamata Disease, and sent samples of their hair to U of T for analysis.

And recently, the lab's findings in tests of hair from Indian smelter workers and children in Yellowknife pointed to severe arsenic pollution. "I had never seen such a high concentration of arsenic in hair," Mrs. Tiefenbach exclaims.

Thanks to Ken Anderson's device, paralytics now can "speak", simply by moving their eyes

Paralyzed persons who neither speak nor have the use of their hands will be able to communicate by means of their eye movements and an electronic device developed at the University.

The device is mounted on a standard frame for eyeglasses and contains a tiny computer. The user spells out words by looking at letters on a small built-in screen; the words are then typed out by an electronic typewriter.

The inventor, Ken Anderson, a post-graduate student in the Department of Electrical Engineering, says that with a bit of practice the user can spell out words and sentences at a rate of one character per second.

"That doesn't seem very fast," he

allows, "but what if you have no other way of communicating?"

He says a quadriplegic woman in her thirties, who tested his device, was able to learn to use it fairly effectively within half an hour.

The system will be of greatest benefit to people incapacitated by illness or by accidents who don't have control of their voice and can't use their hands for sign language or writing. That includes, for instance, victims of cerebral palsy, and totally paralyzed stroke victims and quadriplegics, as well as many accident victims.

Anderson, who also studies medicine at U of T, points out that most paralytics retain control of eye movement.

The principle of the system — in essence detecting the minute changes in the orientation of the eye as it focuses on different positions on the screen — has been experimented with before, but Anderson's is believed to be the first practical device that actually works.

It represents a technical breakthrough in that it is the first of its kind to use advanced digital electronic circuits, similar to those used in hand calculators.

"The trouble was," Anderson says, "that earlier systems of this kind took hours to set up and then they would work for maybe 30 seconds. Our device takes only 40 seconds to set up. After that, if you don't move the spectacles too

much, you can keep going pretty well as long as you want."

Anderson says the prototype device, excluding the typewriter, cost approximately \$1,000 to build. He estimates it could be routinely produced for about \$500, using inexpensive, standard, off-the-shelf components.

Anderson is currently doing further development work on the device, which will be the subject for his doctoral thesis in biomedical engineering, with the aid of a \$10,800 Atkinson Foundation grant. The work is aimed at further improvement of the original design to make it suitable for commercial production.

J.K.

Now 100,

by Mary Henkelman

Wycliffe College, too, is joining ranks of the venerable in this celebrating a birthday — its 100th. guest at the anniversary services Aug. 28-30 will be Donald Coggan, a former teacher at the College, and Archbishop of Canterbury.

To commemorate the centennial of the founding of the College, Wycliffe College is editing a new history of the College.

Wycliffe was named for a 14th century "heretic" who, on completing the translation of the Bible into English, was accused of "turning the jewel of the church into a common sport of the people". Similar feelings must have surrounded the founding of the College in 1877.

In protest to the Tractarian doctrine of "high church" rituals, a group of Irish students at St. James Cathedral sought to reach the Anglican Church's Reformation age, particularly its emphasis on both scripture and preaching. Only by training their own clergy could the "church" survive, so in 1877 Rev. John Sheraton began teaching at the College with nine students.

From there Wycliffe moved to North and College Streets, and then to a confederation with the University in 1925 to its present Hoskin Street home. Not until 1925 did its elder sister, Trinity College, come to take watch from the street.

Wycliffe today still sees itself very much in the tradition of its namesake and continues to provide an important role in religious education.

However, to be autonomous and self-sufficient, Wycliffe, with its own Board of Trustees, receives no funds from the University or the Anglican Synod. Its essential centennial activity is the Wycliffe Centenary Fund, an attempt to raise \$400,000 of this will be used to endow two academic chairs; the balance for basic renovations.

The 85-year-old building, though structurally sound, has definitely outgrown its archaic heating, plumbing and roof. The roof, too, needs strengthening. The library on rainy days one needs buckets to catch the drips. And despite its impromptu sprinkler system, the building

R.S.

Medical geneticist Mark Pearson receives Macy Award

Dr. Mark Pearson, Department of Medical Genetics



Dr. Mark L. Pearson of the Department of Medical Genetics has been elected to receive a Macy Faculty Scholar Award for 1977-78, and will leave in August with his family for one year at Stanford University, California.

Six months of the year the molecular biologist will work at Stanford's Department of Biochemistry (in the same laboratory where he did his post-doctoral studies from 1966-69), and will concentrate on experiments with recombinant DNA.

The other six months, he will work in the Department of Biological Sciences, collaborating with scientists who share his interest in molecular mechanisms responsible for "turning genes on" during virus development.

Much of the research that in 1974-75 dramatically launched the news of recombinant DNA technology to the world was done at Stanford.

Deoxyribonucleic acid (its name mercifully shortened to DNA) is the chemical keeper of the keys to heredity; it tells each cell what it can create, when, and how. DNA is the principal chemical component of genes and chromosomes, which

are the discrete blueprints distinguishing each living thing.

Dr. Pearson's research has the potential for understanding and perhaps treating a variety of human genetic diseases arising from faulty gene expression.

"If we can isolate the DNA sequence involved only in mammalian muscle development, then we may be able to discover what these genes turn off and on and how defects occur in the process," he says. "Muscle development is only one aspect of differentiation that can be studied this way, but it represents the kind of problem to which DNA research can be profitably applied."

Containing biohazards

Dr. Pearson, who is chairman of the Biohazards Sub-Committee of U of T's Research Board, has helped write the guidelines on safe containment of biohazardous research for the Medical Research Council.

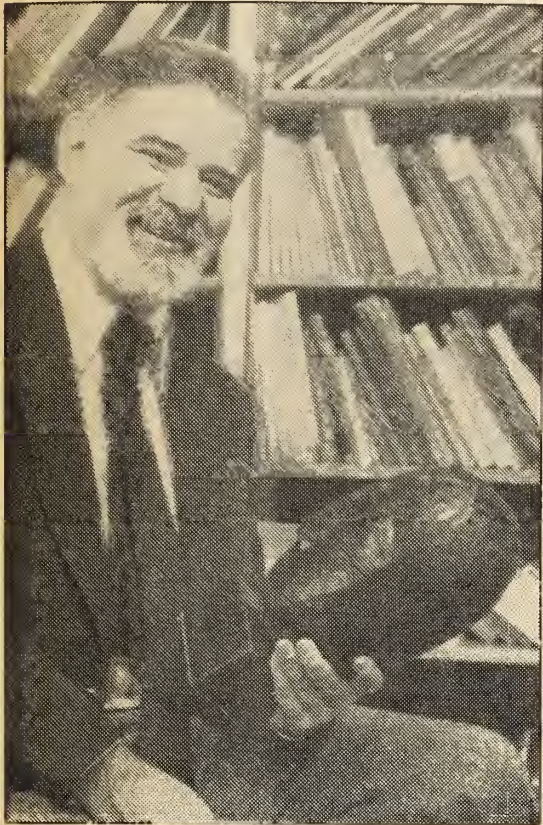
"The guidelines are now in effect at U of T," he says, "and it looks as though the federal government will bring in legislation to enforce their implementation in all laboratories."

"The adolescent is the heroically alone individual"

by Robbie Salter

"Adolescence, in most societies, is a brief, swift rite of passage, but in North America, we have taken this

Dr. Vivian Rakoff, professor of Psychiatric Education



life stage, this period of transition, and pulled it out like a piece of socio-economic taffy," says Dr. Vivian M. Rakoff, Professor of Psychiatric Education, in his eighth floor office in the Clarke Institute of Psychiatry.

"It's almost as though we invented adolescence, and yet, its elaborations are comparable to that period 200 years ago when m'lord was permitted a period of time - 'to sow his wild oats'. Today, as in the past, the delay in maturity is the hallmark of prosperity."

Dr. Rakoff speaks as a psychiatrist, historian, philosopher and littérateur, and from an education begun in the University of Cape Town and continued at London and McGill, culminating in a Fellowship from the Royal College of Physicians and Surgeons:

"Although the human infant is longer dependent than any other young, and requires a family of caring adults for its support, affluence extends the dependency. And seldom has there been greater evidence of affluence than during the 1960s when 'the kids' - some of whom were in their late 20s and early 30s - took long periods of time to find themselves. One of the paradoxes of social progress and economic expansion is a democratization of options."

Options and privileges that were one time reserved for the few, Rakoff continues, have become a popular model for all levels of society: "These options are indeed great privileges, but in addition to freedom, they also bring uncertainty and perhaps pain."

The need for the young person to find himself is often at variance with the needs of the family, he says, and the family today continues to be vitally important, despite its current bad press. "So many human needs - the sense of community, finding an identity, developing sexual identity, a sense of trust, and the capacity to relate to others - are fastened to the family constellation (together, of course, with lots of troubles)."

Dr. Rakoff believes that adolescence is a vitally important part of life. "It's the one period of life when we are alone, more or less unattached to our family of

origin. But it lasts a very short time and soon we are trapped by our own biology, society, and history into setting up a family of our own. Presto, we are attached again.

"Yet today's patterns of adolescence contain the rhetoric of the heroically alone individual, as the only truly human and fully realized person. It is as though the adolescent is the hero figure we should aspire to."

"Many currents have combined to produce this heroic figure and some of them are the most treasured values of our civilization: the right to free and individual personality, egalitarian politics, equality before the law. Today, the importance of the individual in society is supported by political movements and aesthetic and philosophical currents, to the extent that one is reticent to mention words such as loyalty, self-sacrifice, or even patriotism - all somehow implying notions of surrendering the self to others."

Dr. Rakoff finds it interesting that Sartre, the most effective philosopher of the individual, existential self, subscribes to a social philosophy in which the group is entirely dominant over the demands of the individual's needs and personality - as in Marxism and Maoism.

"We're often in the position of wanting all the goodies of the individual self," say the psychiatrist, "and rejecting the dangers within that ideology. Nietzsche appreciated the dangers of walking a tight-rope towards becoming the 'super man' - finding your own destiny. He knew it contained the danger of death with a fall - the danger of wanting the goodies."

But, he says, we are driven by forces beyond our own rhetoric to mate with one another, to have a child, and to be involuntarily moved by its helplessness. "The need and the satisfaction in having children is profound. It can, of course, go wrong, and it's subject to volition and planning, but it's as much a part of our identity as is having two legs."

"Being part of a family is not always pleasurable," Rakoff concludes, "but it must be considered an essential aspect of our growth into full humanity."

Wycliffe still offers independent religious viewpoint

Celebrating its centennial, Wycliffe College on Hoskin Street provides an important alternative in religious education

has a long way to go before it will pass fire regulations.

Since the Toronto Historical Board has designated Wycliffe as a building of historical interest, Heritage Ontario will provide some financial help. But, explains Wycliffe Director of Development, Tony Capon, "Heritage's concerns are mainly on the decorative side - which may help with renovation in the entrance and public areas - but won't touch the 'bread-and-butter' repairs."

To date, the Second Century Fund has received close to \$650,000 in gifts and pledges. Support comes mainly from alumni, Anglican businessmen, and certain Anglican parishes with an interest in the College. But, admits Tony Capon, "It's hard to get people excited about heating pipes."

In teaching, too, the College has attempted to live up to the Wycliffe tradition. While the school's main aim is to provide graduate-level professional training for the Anglican priesthood, the independent nature of the College is evident in that neither students nor faculty are exclusively Anglican. Over the last 10 years enrolment has been increasing, until now, with 75 full-time students, Wycliffe is the largest Anglican college in Canada. In 1965, the College also started a diploma program for lay people, which currently, with more than 100 students, has spread to branch campuses in such areas as Oshawa, Peterborough, and Quebec City.

In 1969, Wycliffe became affiliated with the Toronto School of Theology and is presently in the last stages of accreditation with the U.S.-based Association of Theological Schools. To the range of theological positions in these institutions, Wycliffe contributes its own independent viewpoint.

This year at Wycliffe's May 3 Convocation, Malcolm Muggeridge, another controversial Christian who enjoys a somewhat heretical stance, will receive an Honorary Doctorate.



RESEARCH NEWS

NRC Guidelines Recombinant DNA

The National Research Council has announced that all research projects involving recombinant DNA or live animal viruses and cells which are financed by the Council in industrial, university and NRC labs must now conform to the safety and containment guidelines recently issued by the Medical Research Council for MRC-funded research.

The guidelines require special containment equipment and procedures in accordance with perceived levels of danger for certain kinds of research. They also require prior review of research project plans and monitoring of laboratory equipment and procedures to prevent potentially dangerous experimental organisms from escaping the laboratory situation.

The University's Research Board has for several months been actively preparing procedures for implementing the guidelines. A special biohazards panel, chaired by Dr. Mark Pearson of the Department of Medical Genetics, is preparing a final report to be presented to the executive committee of the Research Board in April and to the Research Board in May. In the meantime, the

Medical Research Council has made funds especially available for biohazards containment equipment applications.

Further information is available from 978-2874.

Use of Patient Records at Teaching Hospitals

A subcommittee of the Research Board's human experimentation subcommittee, appointed in the spring of 1976, has developed a report containing guidelines for the use of review committees examining research proposals for studies which will involve access to hospital patient records. Members of the reporting subcommittee are Professors J.H. Crookston of the Department of Medicine, G.A.B. Watson, director of the Centre of Criminology, and Abbyann Lynch of the Department of Philosophy. The report was accepted by the human experimentation subcommittee of March 29.

The report presents a University parallel to legislation affecting public hospitals. It is intended for particular use in review of studies to be undertaken at the teaching hospitals affiliated with the U of T.

The report will be printed in the *Bulletin* of April 22.



Ivan Gottlieb, left, has been appointed Budget Office Manager and Tony Pieterse, right, has been promoted to Accounting Manager.

Comptroller's Office appointments

The University's Comptroller, R.G. White, announces that the following changes in the Comptroller's Office have taken effect as of March 18.

Tony Pieterse has been promoted to the position of Accounting Manager, reflecting a reorganization of responsibilities whereby all accounting sections have now

been consolidated into one department, reporting to one manager. Pieterse is in his eighth year with the University, having held various supervisory and managerial positions in the Comptroller's Office, most recently as manager of Capital and Trust Accounting. He also spent two years in the

Computer Centre as administration manager.

Ivan Gottlieb has been appointed Budget Office Manager, having served for the past six months as acting manager. In his new position, Gottlieb will be able to draw on his six years' experience at the University as an accountant, accounting supervisor and budget analyst.

JOB OPENINGS

Below is a partial list of job openings at the University. Interested applicants should read the Promotional Opportunity postings on their staff bulletin boards, or telephone the personnel office for further information. The number in brackets following the name of the department in the list indicates the personnel officer responsible. Please call:

(1) Sylvia Holland, 978-6470; (2) Wendy Chin, 978-5468; (3) Manfred Wewers, 978-4834; (4) Ann Sarsfield, 978-2112; (5) Beverley Chennell, 978-7308.

Secretary II (\$8,470 — 9,970 — 11,460)

Medical Genetics (4), Dentistry (1), Chemistry (1), New College (2), Dean's Office — Faculty of Medicine (4)

Electronic Technologist I (\$9,850—11,590—13,330)

Electrical Engineering (5)

Laboratory Technician II (\$10,370—12,200—14,040)

Medicine (4)

Laboratory Technician III (\$11,450 — 13,470 — 15,490)

Zoology (1), Medical Genetics (4)

Programmer I (\$9,850 — 11,590 — 13,330)

Preventive Medicine & Biostatistics (4)

Engineering Technician IV (\$16,530 — 19,450 — 22,370)

Radiological Research Labs. (4)

Drivers (\$7,000 — 9,060 — 10,420)

Post Office (1)

UQaM struggle lasted 120 days

Continued from Page 2

T professors. We excerpt a few points salient from the Toronto perspective.

The principle issue in the UQaM strike was professors' power over academic matters. Guarantees obtained in the union contracts of 1971 and 1973 were to have been removed by the "reforms" announced by Albert Després, head of the six-campus UQ. Economic issues were also important; in particular, the professors wanted the portion of teaching done by TAs reduced from 45 to 20 percent.

The strike lasted 120 days, and ended in victory on the academic independence issues, in partial victory on the economic. Students (though Professor Laganas says they tend to regard professors as weak-kneed for participating in democratized structures which leave real power with the administration) generally supported the strike. Other campuses of UQ were not directly involved, partly because UQaM is organized through the Fédération Nationale

des Enseignants Québécois, an affiliate of the Confédération des Syndicats Nationaux, while some other campuses have other unions. However, the victory at UQaM must have eased the victory on similar issues won more recently at the Nordouest campus.

UQaM professors received strike pay from the CSN. They see no occasion to appeal for financial help from other campuses.

A point on which Professor Laganas put great emphasis: maintenance workers who respected professors' picket lines had their pay withheld from the University. When the Syndicat des Professeurs had reached agreement with the administration on their own dispute, they made their return to their duties contingent on the administration's paying maintenance workers the pay they lost. This was done.

Chandler Davis,
Department of Mathematics;
Peter Fitting,
Department of French,
St. Michael's College.

PH D ORALS

Since it is sometimes necessary to change the date or time of an oral examination, please confirm the information given in these listings with the Ph.D. oral office, telephone 978-5258.

Monday, April 18

Ronald Woodrow Brill, Jr., Department of Educational Theory, "Effects of Residential Program Structure and Conceptual Level in the Treatment of Delinquent Boys." Thesis supervisor: Prof. D. Hunt. Room 111, 63 St. George St., 10 a.m.

Joseph A. Browne, Department of Educational Theory, "Health Professionals' Participation at Hospital Ward Meetings and the Effect of that Participation on Patient Care Plans." Thesis supervisor: Prof. L.E. Davie. Room 111, 63 St. George St., 2 p.m.

Amar Singh, Department of Sanskrit & Indian Studies, "Dharmakīrti's Philosophical Standpoint." Thesis supervisor: Prof. A.K. Warder. Room 307, 63 St. George St., 2 p.m.

Tuesday, April 19

Norma Duncan, Department of Microbiology & Parasitology, "An Epidemiological Investigation of Pseudomonas Infections." Thesis supervisor: Prof. N. Hinton. Room 309, 63 St. George St., 9.30 a.m.

Janet B. Wright, Department of English, "Hardy's *Jude the Obscure*: A Critical and Contextual Study." Thesis supervisor: Prof. M. Millgate. Room 111, 63 St. George St., 2 p.m.

Wednesday, April 20

Gregory Frederick Mazuryk, Department of Psychology, "The Effects of Initial Recall Processes upon Subsequent Retrieval Performances." Thesis supervisor: Prof. R.S. Lockhart. Room 307, 63 St. George St., 2 p.m.

Richard George Hodgson, Department of French, "Poétique et Pratique du Roman dans l'oeuvre

de Charles Sorel." Thesis supervisor: Prof. D.F. Jurlait. Room 111, 63 St. George St., 3 p.m.

Thursday, April 21

Subhash Chandra Garg, Department of Aerospace Science & Engineering, "Numerical Minimization Methods for Functionals: Comparison and Extensions." Thesis supervisor: Prof. P.C. Hughes. Room 309, 63 St. George St., 10 a.m.

Thursday, April 21

Michael Petrunik, Department of Sociology, "The Quest for Fluency: A Study of the Identity Problems and Management Strategies of Adult Stutterers and Some Suggestions for an Approach to the Management of Deviance." Thesis supervisor: Prof. L. Zakuta. Room 111, 63 St. George St., 2 p.m.

Monday, April 25

Isabel M. Doxey, Department of Educational Theory, "Training Program Effects on Selected Verbal Patterns of Kindergarten Teachers." Thesis supervisor: Prof. E.M. Regan. Round Room, Massey College, 2 p.m.

Ronald W. Ruegger, Department of Philosophy, "The Propositional Attitude in Perception." Thesis supervisor: Prof. J.T. Stevenson. Room 309, 63 St. George St., 2 p.m.

Andrew Ross Gray, Department of Civil Engineering, "The Effect of Weather on Airport Runway Operation." Thesis supervisor: Prof. G.N. Steuart. Room 201, 65 St. George St., 2 p.m.

Tuesday, April 26

Marti Diane Smye, Department of Educational Theory, "Verbal Cognitive and Behavioral Correlates of Social Anxiety." Thesis supervisor: Prof. J.D. Wine. Room 111, 63 St. George St., 10 a.m.

Linda Geller-Schwartz, Department of Political Economy, "The Multi-Party System and Parliament: A Study of the Interrelationship in the Canadian House of Commons." Thesis supervisor:

Prof. P.W. Fox. Room 307, 63 St. George St., 3 p.m.

Wednesday, April 27

Can Duy Le, Department of Political Economy, "An Econometric Analysis of the Canadian Newsprint Market 1950-1972." Thesis supervisor: Prof. J.A. Sawyer. Room 307, 63 St. George St., 2 p.m.

Thursday, April 28

Gintautas Benedict John Strumila, Department of Chemical Engineering, "Chlorine Dioxide Oxidation of Acetovanillone and Related Lignin Model Compounds: Dynamics and Reaction Products." Thesis supervisor: Prof. W.H. Rapson. Room 309, 63 St. George St., 10 a.m.

Larry Robert Kurtz, Department of Political Economy, "Public Policy and the Housing Problem: Goals, Programs and Policy Constraints." Thesis supervisor: Prof. J.S. Dupré. Round Room, Massey College, 10 a.m.

Allan Donald Hansen, Faculty of Social Work, "Adaptive Behaviour of Retarded Adults in Residential Centres." Thesis supervisor: Prof. C. Lambert. Room 111, 63 St. George St., 10 a.m.

Stanley A. Linkovich, Department of English, "The Romantic Image in the Novels of George Eliot." Thesis supervisor: Prof. H. Auster. Room 111, 63 St. George St., 2 p.m.

Helen Schutzberger, Department of Philosophy, "Aristotle and the Supreme Mover of the Physics." Thesis supervisor: Prof. J. Owens. Round Room, Massey College, 3 p.m.

Friday, April 29

Violet Munns, Faculty of Social Work, "The Field Practicum in the Organizational Context." Thesis supervisor: Prof. B. Shapiro. Room 307, 63 St. George St., 10 a.m.

BOOKS

The third party's role in Canadian politics

Social Credit and the Federal Power in Canada

J.R. Mallory

University of Toronto Press, 1954, reprinted 1976.

The decision by U of T Press to reprint this book is both timely and significant. It is timely in that *Social Credit and the Federal Power in Canada*, which has long been out of print, has not been readily available to a generation of students who would have benefited greatly from it. Its significance lies in the fact that it represents one more indication of the resurgence of the political economy tradition in Canadian social science.

As Mallory himself says in the preface to the new edition, this book owes a great deal to Harold Innis. This debt is reflected in the way in which Mallory attempts to demonstrate that changes in the economic environment of Canada, and in political and economic ideology, affected the institutions of the Canadian state and the nature of Canadian federalism. More specifically, the book attempts to explain the conflict between the Social Credit government of Alberta and the Dominion Government in the 1930s and 1940s in terms of the economic purposes behind Confederation, and the subsequent change in the legislative distribution of powers in response to changing economic conditions.

Mallory's interpretation of the purpose and use of the federal power of disallowance and his explanation of the course of judicial interpretation of the BNA Act from the 1880s to the 1920s are undoubtedly the most insightful ones provided by any student of this subject. The detailed account of the struggle between the government of Alberta and the Dominion government over Alberta's attempt to legislate a social credit program and to redefine the conditions of debt repayment between Alberta and the country's financial institutions is then placed within the broader context of the author's analysis of the development of Canadian federalism. His conclusion, which emphasizes the role which this conflict played in redefining the nature of post-war federalism, is extremely perceptive.

Social Credit and the Federal Power in Canada will be an invaluable aid to all those interested in studying the role of third parties in Canadian politics, the pattern of Canadian constitutional development from Confederation to the end of World War II, and the relation between the political economy of Canada and the evolution of its political institutions.

David A. Wolfe,
Ph.D. candidate,

Department of Political Economy.

Poetry reflects ideological ferment of Great Depression

New Provinces, Poems of Several Authors

University of Toronto Press

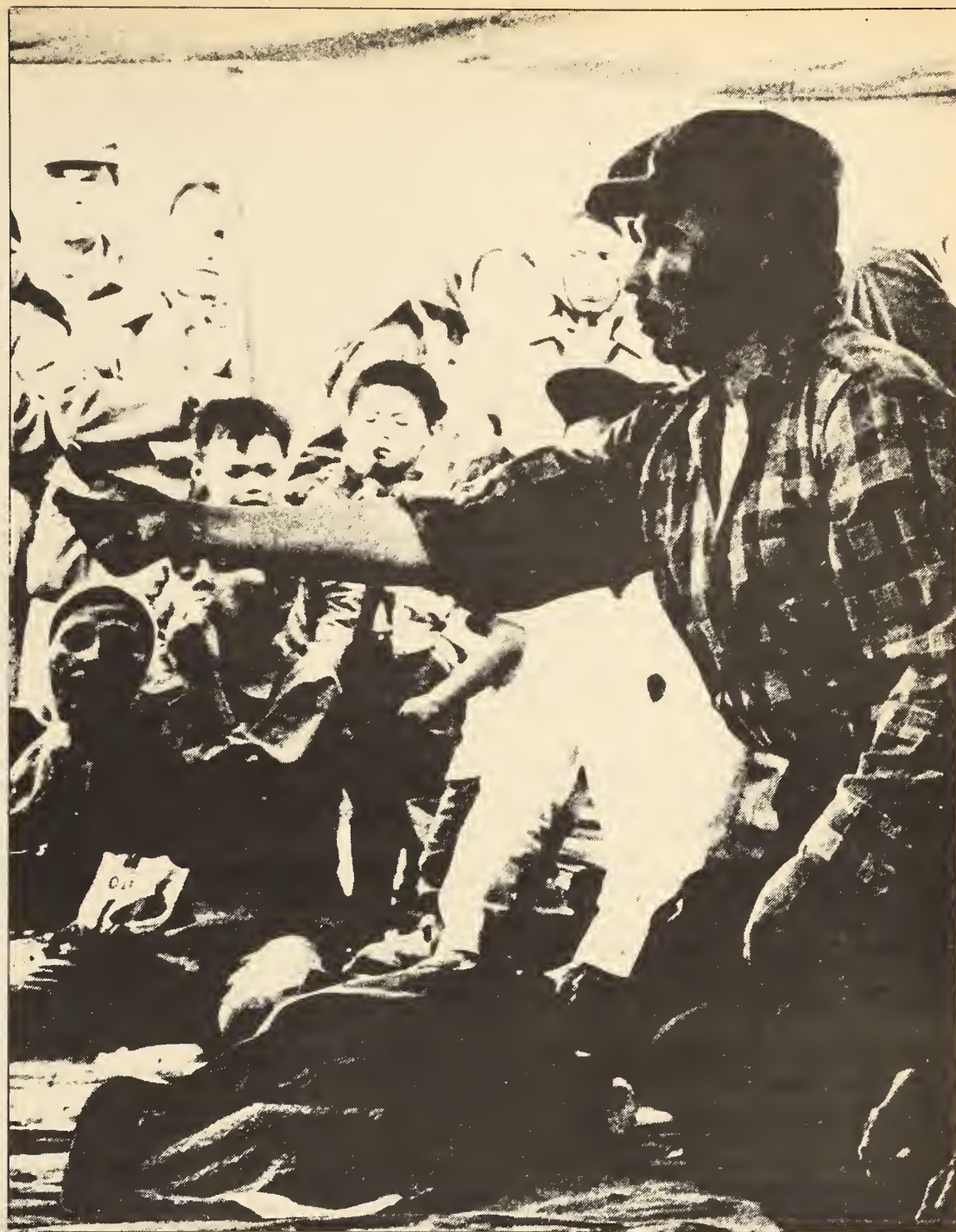
For a reader wanting quick entry into the Canadian poetry milieu of the 1930s, I can think of no better introduction than the latest item (number 20) in the U of T Press's series "Poetry and Prose in Reprint": *New Provinces, Poems of Several Authors* (first edition, 1936). The editor of this reprint, Michael Gnarowski, opens a wide door with his lively account of the anthology's entertaining and revealing pre-history, and his placing of the six contributors, Finch, Kennedy, Klein, Pratt, Scott and Smith, in their cultural context. If this list had included Livesay (as it very nearly did) and excluded that extinct volcano Leo Kennedy, the dominant poetic voices between the wars and well beyond would have been fairly represented in a single volume.

The anthology's terse original Preface by F.R. Scott is reprinted,

but so also is the long "rejected Preface" by A.J.M. Smith, a splendidly youthful, forthright and energetic "nose tweaking" (Pratt's disapproving phrase) of the reigning Canadian literary establishment. Taken along with the poetry, these demonstrate vividly the extent to which the volume is in fact an exploration of "new provinces" and springs from, or seeks to avoid or rise above, the ideological ferment of the Great Depression.

The obstacles the original editors had to overcome in finding a publisher for the most important English-Canadian poets of their time (and for, despite the unevenness of the selections, some of their best poems) might lead a modern reader to gratitude for the passing of an epoch of cultural poverty and the arrival of an age of cultural pride and prosperity.

B.F. Watt
Department of English
University College



Transforming a people into a commodity

Dene Nation: the colony within.
Edited by Mel Watkins for the
University League for Social Reform.

University of Toronto Press.

Dene Nation is about the contradiction of capitalism, whose transformation of people into commodity, in fact, ends up creating a new people. No longer the fragmented Status, non-Status Indians and Metis, but a new Dene Nation. This collection of essays from the Berger Inquiry exposes the fullness of native economy, its partial destruction by the oil industry, deceptive royalty/tax arrangements (at the expense of southern Canadians), the illogic of the pipeline proposals, irrationality of formal rationality in territorial and local governments (51 percent democracy, Sukarno once

said) and past dealings with the aboriginal populations almost as scandalous as the liquidation of the Tasmanians. The *déjà vu* complex of these symptoms is all the more startling as it unfolds itself in an advanced capitalist state such as Canada, where enclaves of dependency, called frontiers, were successively reproduced in support of the metropolitan interests that pulverised the community and people into homogeneous, atomistic "industrial workers", only to discard them as spent labour power in ghost towns, skid rows and "reserves".

The logic of the capitalist economy denies the authentic experience of a people whose tradition (or the world of common meaning as Charles Taylor would have said), totally disenchanted, evaporates before the scintillation

of TV tubes. Alienation in place of sharing. The refusal by the Dene of all this, as their own contributions to the volume make it abundantly clear, bears a message to us. It has been said that there is no Indian problem, only a non-Indian problem. The message of *Dene Nation* is that it is our institutions, not the Dene's, that are subject to a radical critique. The problem is not simply how to meet the Dene Declaration or respond to their draft agreement but that we too are subject to a dehumanising milieu and deprived of the community, and that we too must liberate ourselves from the colony within which we are caught. We share with the Dene a community of fate. To read *Dene Nation* is to reflect upon ourselves.

Shuichi Nagata,
Department of Anthropology.

Dictionary gives insights into figures from Canada's past

Dictionary of Canadian Biography, Volume IX: 1861 to 1870
University of Toronto Press

The *Dictionary of Canadian Biography* is unquestionably one of the most worthwhile of the expensive, ongoing projects that have in recent years captured the fancy of Canadian academe. Too often, these projects seem to consume much money, time, and talent to achieve results that are of interest only to a small fraction of the particular profession that is supposed to justify their existence. Not so the *Dictionary*. Its intention is to provide "authoritative information about the significant figures of Canada's past." So far, five volumes have appeared, three on New France (I, II, III) and two on the nineteenth century (IX and X). Each is of excellent quality, because of the energies individual scholars have devoted to preparing the biographies and the careful vetting of these by the editorial staff of the

Dictionary. No wonder the *Dictionary* has already proved its value to the historian, whether he wishes to enrich his classroom teaching or buttress his own research findings. Indeed, this project is useful to anyone interested in the Canadian experience, not just the professional historian.

The most recent offering, volume IX, treats the lives of 542 notables who died in the Confederation decade, 1861-1870. The directors wisely dispensed with the introductory essay that graced previous volumes, since such a survey appeared in the companion volume X and, under the circumstances, the space was better devoted to the biographies. Of course, the other, supplemental contents, a lengthy bibliography of sources and indexes of biographies and authors, remain. The biographies cover a wide variety of types - explorers and eccentrics, clergymen and educators, journalists and writers (notably T.C. Haliburton), entrepreneurs of all

sorts (including Samuel Cunard), and an unending host of officials and politicians (like D-B. Viger and L-H. La Fontaine) - active somewhere in British America sometime between the first years of the century to their deaths in the 1860s. Perhaps the occasional reader may query the concern with "significant figures," which by definition excludes ordinary people, but I doubt even the harshest critic can deny the directors have spread their net very wide.

No short review can do justice to the wealth of contributions in the volume. Two long accounts dealing with key figures do deserve special mention, though. Gerald Craig has written an especially fine account of Bishop Strachan, the stereotyped arch tory of early Ontario who emerges as an energetic, public-spirited soul battling to preserve an older social order in the uncongenial environment of North America. F.H. Armstrong and R.J. Stagg, likewise, attempt to re-

evaluate the career of William Lyon Mackenzie by highlighting his flaws as well as his talents and reform zeal. Other scholars may quarrel with the interpretations offered, especially the account of Mackenzie. But the directors of the *Dictionary* asked contributors to produce "independent and original treatments." Such Messrs. Craig, Armstrong, and Stagg have done, as indeed have most of the three hundred odd contributors. Which makes the biographies lively, useful, and often novel.

In sum, the *Dictionary* maintains the high standards of scholarship and interest set when the first volume appeared. The *Dictionary* may not cause the kind of excitement in academic circles sparked by the appearance of some new monograph, but the value of this ongoing project can only increase with each published volume - and the value will be permanent.

Paul Rutherford
Department of History

SESQUI U EVENTS

For information concerning Sesquicentennial events, phone 978-5000.

FRIDAY APRIL 15

Herodotus and the Greek Poetic Tradition (Lecture) Prof. C.J. Herington, Yale University. 140 University College. 3.10 p.m. (Classics and SGS)

Selectivity in Synthesis Using Unsaturated Organo Boranes (Colloquium) Prof. J. Hooz, University of Alberta. 158 Lash Miller Chemical Laboratories. 4 p.m.

SATURDAY 16

Visitatio Sepulchri, 12th Century French liturgical drama from Fleury Playbook, presented by the PLS in Latin. Saturday at 8 and 9.30 p.m., Sunday at 4 p.m. in Trinity College Chapel. Admission free but donations welcome.

SUNDAY 17

Beowulf and buried ships (15th lecture in special Sesquicentennial series at Science Centre) Prof. Colin Chase, Centre for Medieval Studies. Main auditorium, Ontario Science Centre. 3 p.m.

Moe Koffman Quintet (Last of Erindale In-Concert series) Meeting Place, Erindale College. 3 p.m. Tickets \$4, students and senior citizens \$3. Telephone 828-5214.

Chamber Music Concert by Royal Conservatory Trio (Last of series) Isidor Desser, violin; David Hetherington, cello; Marian Grudeff, piano. Concert Hall, Royal Conservatory of Music. 4 p.m. Tickets \$3, students and senior citizens \$1.50. Telephone 978-3771.

MONDAY 18

Anaesthesia and the Lungs (Mickle Fellowship lecture 1976) Prof. John Francis Nunn, director, Division of Anaesthesia, Clinical Research Centre, Medical Research Council of England. Auditorium, Medical Sciences Building. 5 p.m.

Some Aspects of the Chemistry of Transition Metal Oxygen Complexes (Colloquium) Prof. Jack Halpern, University of Chicago. 158 Lash Miller Chemical Laboratories. 4 p.m.

Rudolph Serkin recital in MacMillan Theatre, Edward Johnson Building, postponed to Monday, June 6. Tickets will be honoured on new date. Refunds until Friday, May 13. Telephone 978-3744.

TUESDAY 19

Structural and Functional Properties of Tapeworm Surfaces (Lecture) Dr. R.D. Lumsden, Tulane University. 235 FitzGerald Building. 3.30 p.m. (Microbiology & Parasitology and SGS)

The Supernova Theory of Dinosaur Extinction (Colloquium) Dr. Dale A. Russell, National Museum of Natural Sciences. David Dunlap Observatory. 4 p.m. (Postponed from April 5)

Interactions Between Lymphocytes and Tumor Cells (Special seminar) Dr. Michael Feldmann, Weizmann Institute of Science, Rehovot. 4171 Medical Sciences Building. 4.30 p.m. (Institute of Immunology)

WEDNESDAY 20

Recent Chinese Archaeology (Lecture) Joan Hartman, China Institute, New York City. Lecture room, McLaughlin Planetarium. 4.30 p.m. (Archaeological Institute of America — Toronto Society)

The Molecular Mechanism of Dicarboxylic Acid Transport — A Transport Channel (Seminar) Dr. Ted Lo, University of Western Ontario. 4227 Medical Sciences Building. 12 noon. (Membrane Club)

The Aerocrane, a Helicopter/Balloon Heavy-Lift System (Seminar in Aerospace Sciences) Arthur G. Crimmins, Aerocrane of Canada Ltd. Main lecture hall, Institute for Aerospace Studies. 8 p.m. (UTIAS and CASI)

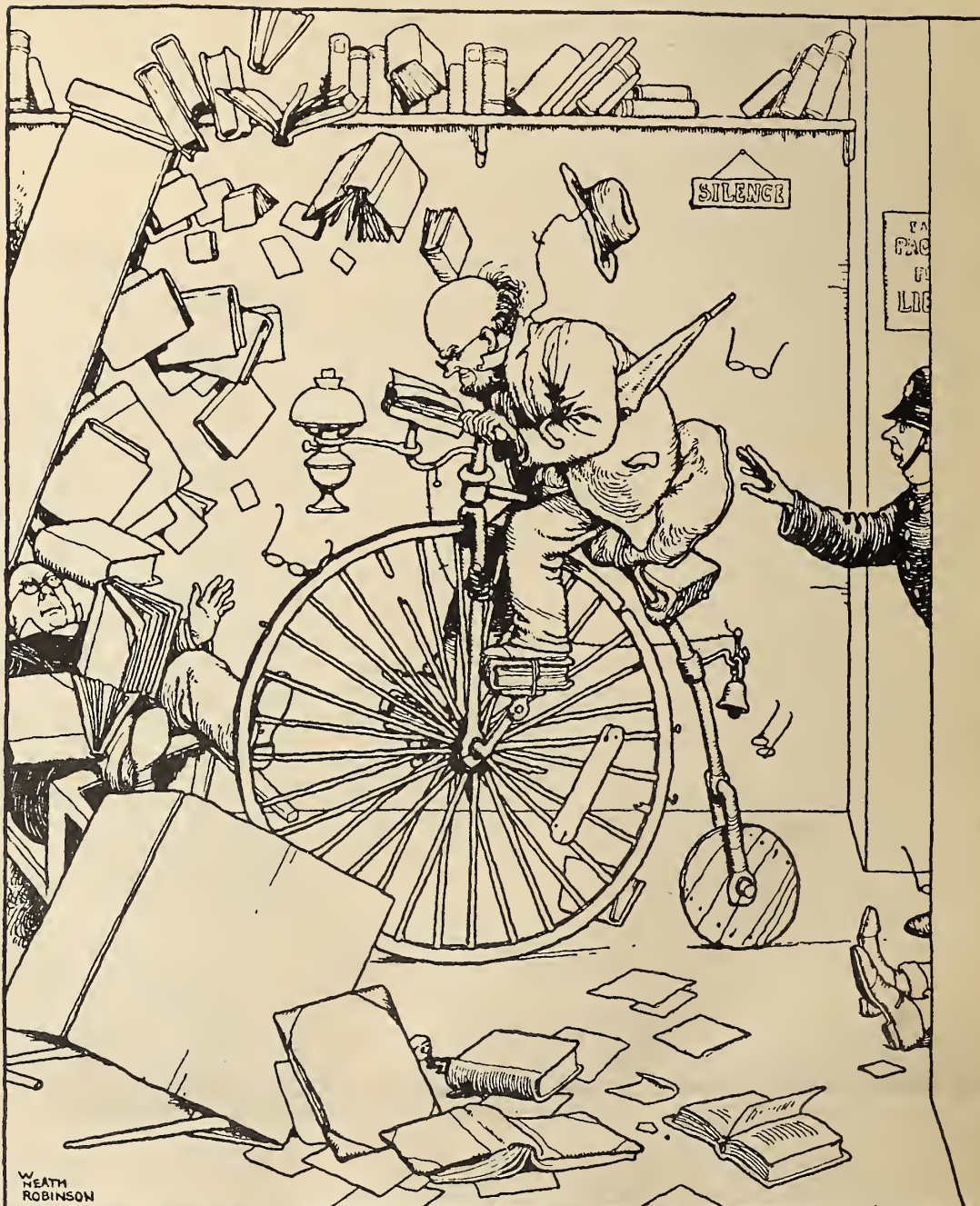
THURSDAY 21

The Current Status of Intraocular Lenses (Walter W. Wright lecture) Dr. Norman S. Jaffe, School of Medicine, University of Miami. Osler Hall, Academy of Medicine. 4 p.m.

Symbolism of Ch'ing Dynasty Costume (First lecture in series, Chinese Costume) Edmund Capon, Victoria & Albert Museum. Lecture room, McLaughlin Planetarium. 8 p.m.

FRIDAY 22

Human Rights and Civil Liberties (Seventh of eight Lunch & Learn Club lectures, **Deprogramming: Documenting the Issues**) Panel discussion. Innis Town Hall. 12.15 p.m. Admission \$2 at door.



AN EXHIBITION of the work of William Heath Robinson, the whimsical English book illustrator and fantasist, is in the Thomas Fisher Rare Book Library until May 14. On view are some original art work and advertising material not publicly exhibited before, as well as Robinson-illustrated books and magazines.

SATURDAY 23

Here's to your health, Faculty of Medicine **Open House**. Displays include embryology, anatomy, nutrition, hematology, radiology, physiology, cancer; films on current medical research problems. Main floor, Medical Sciences Building. 10 a.m. to 6 p.m.

German Music for Viols and Tenor Solo, concert by Hart House

Consort of Viols. Music Room. 8.30 p.m. Tickets \$5, students \$2. Limited number of free tickets for HH members from hall porter.

SUNDAY 24

Proteins and enzymes: biochemistry in your body (16th lecture in special Sesquicentennial series at Science Centre) Dr. Charles Deber, Department of Biochemistry and Hospital for Sick Children.

Main auditorium, Ontario Science Centre. 3 p.m.

TUESDAY 26

Giants and Dwarfs: A Pathophysiological Inquiry (Hurst Brown lecture) Dr. William H. Daughaday, Washington University School of Medicine. Auditorium, Toronto Western Hospital. 4 p.m.

Victoria Women's Association (Final meeting of year) Dr. W.E. McLeod, Department of Classics. Wymilwood. 2 p.m.

THURSDAY 28

Chinese Archaeological Textiles (Second lecture in series, Chinese Costume) John Vollmer, Textile Department, ROM. Lecture room, McLaughlin Planetarium. 8 p.m.

Phosphorylation of Membrane Proteins (Seminar) Dr. Philip Branton, McMaster University. 4227 Medical Sciences Building. 12 noon. (Membrane Club)

FRIDAY 29

The Value of the New Religions (Last of eight Lunch & Learn Club lectures, **Deprogramming: Documenting the Issues**) Prof. Irving Zaretsky, University of Chicago. Innis Town Hall. 12.15 p.m. Admission \$2 at door.

Galbraith Looks at the Canadian Economy (UC Symposium) Prof. J.K. Galbraith, keynote speaker, followed by panel discussion. Convocation Hall. 8 p.m. Tickets \$5 from Alumni House, 47 Willcocks St., telephone 978-2367. (See Briefly page 3)

Nobel prize winners Felix Bloch, Charles Townes at U of T

Two famous physicists, both Nobel laureates, will be at the University May 16-18 to deliver the 1977 H.L. Welsh Lectures in Physics.

They are Dr. Felix Bloch, of

Stanford University, and Dr. Charles H. Townes, of the University of California at Berkeley.

Dr. Townes is one of the pioneers of microwave spectroscopy — a method of identifying

molecules and determining their geometrical structure. He received the Nobel Prize in 1964 for his discovery of the maser/laser principle. More recently he has led the search for common molecules

in interstellar space through astronomical spectroscopy. His research group was the first to detect evidence of ammonia and water molecules in outer space.

Dr. Bloch, well-known for his theoretical contributions to solid-state and low-temperature physics, discovered the principles inherent in a phenomenon known as nuclear magnetic resonance. Today, this is the basis for a widely used and indispensable analytical technique for clarifying complex molecular structures. Dr. Bloch was awarded the Nobel Prize for this discovery in 1952. Among his current interests are the phenomena of superconductivity and superfluidity — the apparent loss of resistance to electrical or fluid flow occurring at extremely low temperatures (near absolute zero, or -273°C).

The H.L. Welsh Lectures in Physics are an annual tradition, in honour of Prof. H.L. Welsh, chairman of the Department from 1942 to 1962, a distinguished physicist in his own right who has made major contributions to the field of molecular physics.

Committee seeks Life Science chairman

The Provost has announced the appointment of a committee to search for and recommend the appointment of a new chairman of

the Life Science Group, Scarborough College.

The members of the committee are Principal J.E. Foley, chairman;

Associate Dean William Thompson, Division IV, School of Graduate Studies; Professors H.C. Corben, chairman, Physical Sciences, Scarborough College; Bert Forrin, Psychology, Scarborough College; D.F. Mettrick, chairman, Zoology; Czesla Nalewajko (Sparling), Botany, Scarborough College; and J.H. Youson, Zoology, Scarborough College.

The committee will be pleased to receive any comments or suggestions you may wish to make bearing in mind that the search will have to be limited to existing members of the U of T because of financial considerations. The committee will begin work immediately and it would be helpful to have any such comments as soon as possible.

Chairman sought for Hispanic Studies

Professor G.L. Stagg's term, as chairman of the Department of Hispanic Studies ends on Dec. 31, 1977.

The Provost has approved the following committee to look for and recommend the appointment of a successor: Dean R.A. Greene, chairman; Deans R.H. Farquharson, Arts & Science, and H.W. Smith, School of Graduate Studies; Professors S.B. Chandler, Italian Studies; K.A.A. Ellis, Diego

Marin and W.L. Rolph, Hispanic Studies; and J.R. Webster, Hispanic/Erindale.

The committee would be pleased to receive any comments or suggestions, verbally or in writing. These may be made to the chairman of any member of the committee. It would help the committee in its work if any such comments could be made as soon as possible and in any case not later than April 22.